



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/736,143	10/28/1996	THOMAS APPLE	03294.0027-0	3553

7590 03/26/2002

FISH & RICHARDSON P.C.
225 FRANKLIN STREET
BOSTON,, MA 02110

EXAMINER

BLACKMAN, ANTHONY J

ART UNIT	PAPER NUMBER
----------	--------------

2672

#23

DATE MAILED: 03/26/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
08/736,143

Applicant(s)
Apple et al

Examiner
Anthony Blackman

Art Unit
2672



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Dec 10, 2001
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: ☐ approved ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☐ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 20) ☐ Other: _____

Art Unit: 2672

DETAILED ACTION

1. Due to the new grounds of rejection, the final action is withdrawn and a new nonfinal action is being sent. Since this application is eligible for the transitional procedure of 37 CFR 1.129(a), and the fee set forth in 37 CFR 1.17(r) has been timely paid, the finality of the previous Office action is hereby withdrawn pursuant to 37 CFR 1.129(a). Applicant's submission after final filed on 12/10/2001 has been entered.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 1-3, 6-13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over HIGGINS, US Patent No. 5,270,922 in view of Lauer et al, US Patent No. 5,523,769.

Consider claim 1. HIGGINS discloses “[a] data processing and communication system [that] distributes and displays financial market ticker, quotation, news and ancilliary information...”

Art Unit: 2672

(please see figure 1a, elements; 28, 30 and 35, figure 2, abstract, lines 1-3, column 1, lines 60-63); comprising the means of an input port to receive a feed containing identifiers and corresponding values of financial instruments (figure 1a, elements, 28, 30(I) to 30(n), and 35, column 2, lines 42-57); the means of a filter to extract from the feed identifiers and corresponding values of the financial instruments (figures 3-4, abstract, lines 8-12, column 1, lines 42-45); the means of an input processor comprising a memory to store the extracted financial instrument identifiers and corresponding values of the financial instruments (column 3, lines 14-18, column 3, line 60-65); the means of an input processor comprising a memory to store the extracted financial instrument identifiers and corresponding values (column 3, lines 14-18, column 3, line 60-65); the means of a database that stores graphic symbols that represent entities whose financial instruments are identified by the instrument identifiers in the feed and that can be accessed by financial instrument identifiers to provide graphic symbols corresponding to the financial instrument identifiers in the feed (figure 3, abstract, lines 8-12, column 6, line 16 to column 7, line 28, and column 9, lines 25-29); a display controller for forming display signals with the graphic symbols and values corresponding to the financial instruments in the feed (column 2, lines 15-18, and column 4, lines 30-49); however, does not expressly teach a video wall including a plurality of individual monitors arranged into a composite display, and with the display controller receiving the display signals to render the graphic symbols and values corresponding to the financial instruments in the feed on the individual monitors. Lauer et al disclose the above limitation (figures 1a, 1b, 3-6, column 3, lines

Art Unit: 2672

57-67, column 4, lines 1-67, and column 5, lines 1-22). It would have been obvious to one skilled in the art at the time of the invention to utilize the seamless wall display means of Lauer et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification will improve the image display capability of financial and securities data.

4. Consider claim 2. HIGGINS discloses the system of claim 1 wherein the feed is a stock ticker feed and the financial instruments are stocks traded over an exchange (figure 2, abstract, lines 1-7).

5. Consider claim 3. HIGGINS discloses the system of claim 2 wherein the values include the current trading price for the stocks (figure 2).

6. Consider claims 6-8. HIGGINS discloses the system of claim 1, wherein the display controller forms display signals with the graphic symbols and values corresponding to the financial instruments in the feed (column 2, lines 15-18, and column 4, lines 30-49), however, does not disclose the means of a plurality of display processors coupled to the input processor and each provided from a respective one of the plurality of display signals, LAUER et al disclose the means of a plurality of display processors coupled to the input processor and each provided from a respective one of the plurality of display signals (column 3, line 57 to column 5, line 22).

Art Unit: 2672

7. Consider claim 9. The modified HIGGINS discloses the system of claim 1, however, does not disclose the means to display signals fed to the individual monitors to render a different graphic symbol and associated financial data on each of the monitors, LAUER et al disclose the means to display signals fed to the individual monitors to render a different graphic symbol and associated financial data on each of the monitors (column 2, lines 28-52, and column 7, lines 25-52).

8. Consider claim 10. The twice modified HIGGINS discloses the means of a stock/financial ticker and ticker feed (figure 1, element 70, figures 2 and 4), and the means of a moving ticker (column 4, line 34 to column 5, line 15), however does not disclose a wall display. LAUER et al disclose the means of a wall display (figure 4).

9. Consider claim 11. The modified HIGGINS discloses the system of claim 1, however, does not disclose the means where the video wall further includes video wall processors for processing the display signals for display on the monitors. LAUER et al disclose the means where the video wall further includes video wall processors for processing the display signals for display on the monitors (figure 4, column 8, line 48 to column 9, line 17).

10. Consider claims 12-13. The modified HIGGINS discloses that "...trading information are supplied by the New York Stock Exchange 28 to a ticker plant 35" (column 2, lines 44-47) correspond to a plurality of routing switches coupled between the display controller, however, does not disclose the means for a video wall. LAUER et al disclose the means for a video wall (figure 4, column 8, line 48 to column 9, line 17).

Art Unit: 2672

11. Consider claim 15. HIGGINS disclose a system for displaying financial information comprising: a first input port for receiving a first time feed containing identifiers and corresponding values of financial instruments (figure 1a, elements 28, 30, 30(I) to 30(n), and 35, column 2, lines 42-57); the means of a second input port for receiving a second feed containing financial data (figure 1a, elements 28, 30, 30(I) to 30(n), and 35, column 2, lines 42-57); the means of a filter to extract from the first feed the identifiers and corresponding values of the financial instruments and from the second feed the financial data (column 3, lines 14-18, column 3, lines 60-65); a memory to store the extracted financial instrument identifiers, corresponding values, and financial data (column 3, lines 14-18, column 3, lines 60-65); a data structure associating the extracted financial instrument identifiers with corresponding graphic symbols being publicly acknowledged identifiers of entities whose financial instruments are identified by the instrument identifiers in the feed (figure 3, abstract, lines 8-12, column 6, line 16 to column 7, line 28, and column 9, lines 25-29); the means of a video processor to produce a first display signal with the graphic symbols and values corresponding to the financial instruments in the feed and a second display signal with the financial data column 2, lines 15-18, and column 4, lines 30-49); however, HIGGINS does not expressly teach a video wall including a plurality of individual monitors arranged into a composite display to receive the firsthand second display signals and display the financial data and the graphic symbols and values corresponding to the financial instruments. LAUER et al teach the means of a video wall including

Art Unit: 2672

a plurality of individual monitors arranged into a composite display to receive the firsthand second display signals and display the financial data and the graphic symbols and values corresponding to the financial instruments (column 3, line 57 to column 5, line 22). It would have been obvious to one skilled in the art at the time of the invention to utilize the seamless wall display means of Lauer et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification will improve the image display capability of financial and securities data.

12. Consider claim 16. HIGGINS discloses the means of a method for dynamically displaying graphic symbols and value information for financial instruments on a display, the method comprising: receiving a feed containing identifiers and corresponding values of financial instruments (figure 1a, elements 28, 30(I) to 30(n), and 35, column 2, lines 42-57); the means of extracting from the feed the identifiers and corresponding values of the financial instruments (figures 3-4, abstract, lines 8-12, column 1, lines 40-45); the means of storing the extracted financial instrument identifiers and corresponding values (column 1, lines 40-45, column 3, lines 14-18, 60-65); the means of using the extracted financial instrument identifiers to find graphic symbols and values corresponding to the financial instruments in the feed (column 1, lines 40-45, column 3, lines 14-18, 60-65), however, HIGGINS does not disclose the means of a wall display and associated processing. Lauer et al disclose the means video wall including a plurality of individual monitors arranged into a larger display (column 8, line 48 to column 6, line 17). It would have been obvious to one skilled in the

Art Unit: 2672

art at the time of the invention to utilize the seamless wall display means of Lauer et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification will improve the image display capability of financial and securities data.

Claims 4-5, 17-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over HIGGINS, US Patent No. 5,270,922 in view of Lauer et al, US Patent No. 5,523,769 and further in view of RAISON et al, US Patent No. 5,761,689.

13. Consider claim 4. The modified HIGGINS teaches utilization of stock symbols with financial and securities data (figure 3, element 201), however, does not disclose the use of a company logo. RAISON et al teach the replacement of a predefined string of characters with other objects, such as bitmap (column 1, lines 54-56), further, "...replacement can also comprise a graphic representation or *virtually* any object that can be displayed" (column 2, lines 25-28), and still further, RAISON et al teach that the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text or a character string with graphic objects such as pictures or logos (column 9, lines 51-54). It would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the modified HIGGINS with the data

Art Unit: 2672

processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security and market ticker information because the logos provide instant recognition for a company/corporation.

14. Consider claim 5. As to claim 4, HIGGINS disclose the moving financial and market ticker display (figure 2, column 4, lines 34-36, column 5, lines 1-5, column 9, lines 18-22, including company symbols, however, does not disclose logos. RAISON et al discloses the means of corporate logos (column 9, lines 51-54).

15. Consider claims 17-20. HIGGINS discloses the means of a system for displaying stock ticker information comprising: a display (figure 1b, element 107); and an electronic device that produces the means of a signal that when fed to the display scrolls market data across the display (abstract, lines 1-2, column 5, lines 6-7), the means of said market data including real-time textual data associated with financial instruments of entities identified by instrument identifiers in a feed received by the system (column 5, lines 16-47), however, does not disclose company logo juxtaposed with financial information. RAISON et al teach the replacement of a predefined string of characters with other objects, such as bitmap (column 1, lines 54-56), further, "...replacement can also comprise a graphic representation or *virtually* any object that can be displayed" (column 2, lines 25-28), and still further, RAISON et al teach that the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text

Art Unit: 2672

or a character string with graphic objects such as pictures or logos (column 9, lines 51-54). Therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security, and market ticker information because the logos provide instant recognition for a company/corporation.

17. Consider claim 21. The modified HIGGINS discloses the system of claim 18 wherein the source containing financial information is a database of financial data (figures 3-4, abstract, lines 8-12, column 1, lines 41-45).

18. Consider claim 22. The modified HIGGINS discloses the system of claim 18 wherein the real-time textual data scrolled on the display are updated according top market conditions (column 5, lines 6-36).

19. Consider claim 23. The modified HIGGINS discloses the system of claim 22 further comprising the means of a filter coupled to a source containing financial data (figures 3-4, abstract, lines 8-12, column 1, lines 41-45), said filter extracting the real-time textual data and placing the real-time textual data in a database (figures 3-4, abstract, lines 8-12, column 1, lines 41-45).

23. Consider claim 24. The modified HIGGINS discloses the means of a system of claim 17 further comprising a correlator that correlates a bitmap of a company symbol with financial data